The diversity of the mycological world is far greater than most people imagine. Tens of thousands of fungal species have been described and many more are known only from the abundance of their genes in soil and water. Fungi are hugely important as agents of wood decay in forests, and, as parasites, they have caused the deaths of millions of people by ravaging crops and reshaping natural ecosystems. Fungi perform essential functions in ecosystems, and are important to both agriculture and biotechnology. Fungi: A Very Short Introduction highlights the variety and extraordinary natures of fungi, revealing the remarkable facts of fungal biology and the global significance of these enchanting organisms.